



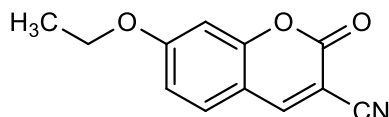
**Catalog # 10-1440**

**3-Cyano-7-ethoxycoumarin**

CAS# 117620-77-6

7-Ethoxy-2-oxo-2H-1-benzopyran-3-carbonitrile

Lot # S102181



Fluorescent substrate for cytochrome P450. Excitation/emission = 408/455 nm<sup>1</sup>. May be used for CYP1A2 and CYP2C19 in intact cells<sup>2</sup>. Cell permeable.

- 1) White *et al.* (1988), *A continuous fluorometric assay for cytochrome P-450-dependent mixed function oxidases using 3-cyano-7-ethoxycoumarin*; *Anal. Biochem.*, **172** 304
- 2) Donato *et al.* (2004), *Fluorescence-based assays for screening nine cytochrome P450 (P450) activities in intact cells expressing individual human P450 enzymes*; *Drug Metab. Dispos.*, **32** 699

#### PHYSICAL DATA

Molecular Weight:	215.20
Molecular Formula:	C <sub>12</sub> H <sub>9</sub> O <sub>3</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml with warming), or Ethanol (up to 3 mg/ml with warming)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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